



Industrial Instruments General Brochure

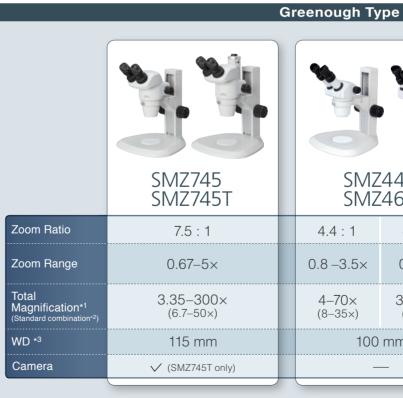
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Stereo Microscopes

The highly cost-effective SMZ series offer outstanding optical performance, flexible system expandability, and superb operability.

		Parallel Opt
	SMZ25	SMZ18
Zoom Ratio	25 : 1	18 : 1
Zoom Range	0.63–15.75×	0.75–13.5×
Total Magnification*1 (Standard combination*2)	3.15–945× (6.3–157.5×)	3.75–810× (7.5–135×)
WD *3	60 mm	60 mm
Camera	\checkmark	\checkmark



*1: Depending on combination of Eyepiece and Objective lens. *2: Combination of Eyepiece 10x and Objective lens 10x. *3: Objective lens 1x or no Auxiliary lens.

SMZ Series



SMZ445 SMZ460			SMZ-2				
: 1	4.3 : 1		5 : 1				
-3.5×	0.7 –3×		0.8–4×				
70× 35×)	3.5–60× (7–30×)		4–120× (8–40×)				
100 mm			77.5 mm				
_							
	✓ : Available / — : Not available						

Industrial Microscopes

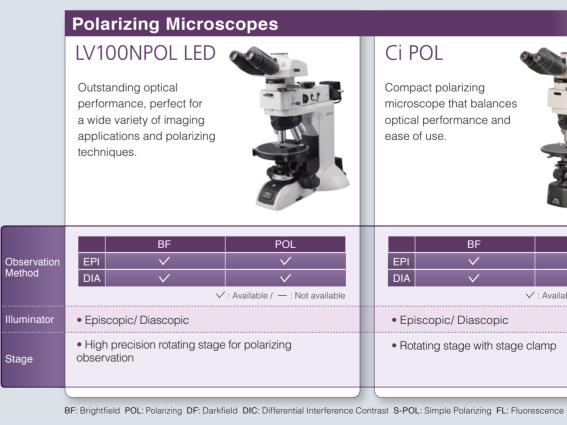
Nikon's Industrial Microscopes utilize the CFI60-2 optical system, highly evaluated for providing a high NA combined with long WD.

	Upri	ght	Mic	roso	cope	es (C	Gene	eral m	0	del)						
	LV100ND LED LV100NDA LED						LV150N LV150NA									
	Model offers various observation methods with reflected/transmitted illumination.				Stand and illumination units are selectable according to observation methods and purpose of use.											
		BF	DF	DIC	FL	POL	2-Beam	Ph-C			BF	DF	DIC	FL	POL	2-Beam
Observation	EPI	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	—		EPI	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Method	DIA	\checkmark	\checkmark	\checkmark	—	\checkmark	—	\checkmark		EPI (LED)	\checkmark	\checkmark	\checkmark	-		—
	\checkmark : Available / — : Not available							\checkmark : Available / — : Not available / \triangle : Simple polarizing observation								
Illuminator	• Epis	copic	/ Diaso	copic						• Episcopic						
Stage	 Episcopic / Diascopic 3×2 Stage (stroke 75×50 mm) 6×4 Stage (stroke 150×100 mm) *See the "LV-N Series" brochure for other compatible stages. 					 3×2 Stage (stroke 75×50 mm) 6×6 Stage (stroke 150×150 mm) *See the "LV-N Series" brochure for other compatible stages. 										

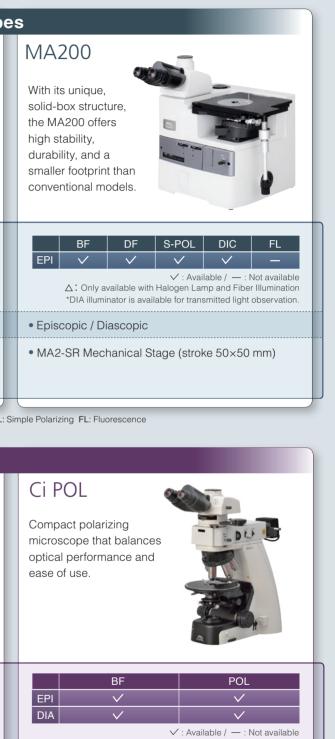
BF: Brightfield DF: Darkfield DIC: Differential Interference Contrast FL: Fluorescence POL: Polarizing 2-Beam: Two-Beam Interferometry Ph-C: Phase-Contrast

	Upright Microscopes (Large-sized	d stage model)
	L200N L200ND	L300N L300ND
	L200IND Stage with stroke 200×200 mm is available. Suitable for ø200 mm wafer observation.	LSOUND Stage with stroke 350×300 mm is available. Suitable for ø300 mm wafer observation.
Observation Method	BF DF DIC S-POL FL EPI ✓ ✓ ✓ ✓ ✓* DIA ✓* — — — — — *L200ND only ✓ : Available / — : Not available — — —	BF DF DIC S-POL FL EPI ✓ ✓ ✓ ✓ ✓ DIA ✓* — — ✓ — *L300ND only ✓: Available / — : Not available ✓ Not available
Illuminator	L200N : Episcopic L200ND : Episcopic / Diascopic	L300N : Episcopic L300ND : Episcopic / Diascopic
Stage	• 8×8 Stage (stroke: 200×200 mm)	• 14×12 Stage (stroke: 350×300 mm)
	BF: Brightfield DF: Darkfield DIC: Differential Interference Contrast S-POL:	Simple Polarizing FL: Fluorescence

	Inverted Metallurgical Microscop						
	MA100N						
	MA100N is compact, inverted microscopes designed for brightfield and simple polarizing observations.						
Observation Method	BF DF S-POL DIC FL EPI ✓ — ✓ — — ✓ : Available / — : Not available *Dedicated reflected illumination models.						
Illuminator	• Episcopic						
Stage	 MA-SR-N Rectangular 3-plate Stage N (stroke 50×50 mm) MA-SP-N Plain Stage N TS2-S-SM Mechanical Stage CH (stroke 126×78 mm) *Please use in combination with MA-SP-N Plain stage N. 						
	BF: Brightfield DF: Darkfield DIC: Differential Interference Contrast S-POL:						



ECLIPSE Series



- Episcopic/ Diascopic
- Rotating stage with stage clamp

Microscope Camera

Digital Sight 1000

Equipped with a 2 megapixel CMOS image sensor, it can capture full HD microscope images. By connecting a microscope to this camera and HDMI monitor, movies and images can be captured and saved onto a pre-inserted SD card in the camera.

DS-Fi3

Three main features of the previous models, high-resolution, high sensitivity and low noise, and highspeed live display are offered in 1 camera.

Digital Sight 10

This high-resolution camera captures both color and monochromatic images at up to $6,000 \times 3,984$ pixels. This enables the wide range of images to be captured and then many of them to be stitched together making a single and large combined image.





Intuitive control of microscope cameras from tablet PCs

Easily view images and control image acquisition settings for the Digital Sight 1000/ DS-Fi3/Digital Sight 10 camera on a tablet PC using NIS-Elements L.

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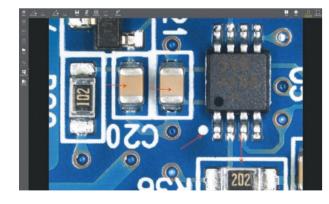
Circle

(Compatible OS: Windows® 10 Pro)

* Nikon provides confirmed compatible tablet PCs with up-to-date specifications. Contact Nikon for details.

User Interface for naturally simple operation

NIS-Elements L displays various menus for image capture, saving, display, measurement and annotations using intuitive icons. It also supports touch screen operation.



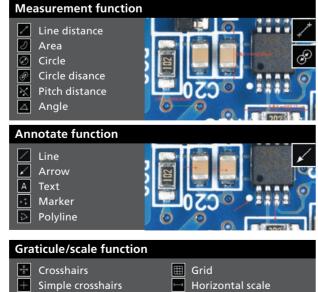
Scene mode

Ten camera setting patterns for optimal color reproduction and contrast for each microscope light source, observation method and type of sample, as well as custom settings, can be selected.

Industrial Scene Mode • Wafer/IC • Metal • Circuit board • Flat Panel Display

A wide variety of tools

NIS-Elements L enables the conducting of simple measurements on images, with input of lines and comments. These can also be written onto and saved with the image, and measurement data can be output.



Vertical scale



for a FD desktop PC Br Ar Nikon's universal software platform, NIS-Elements combines powerful image acquisition, analysis, visualization and data sharing tools. With fully customizable user interfaces and seamless integration of Nikon microscopes, cameras and a wide variety of peripheral devices, NIS-Elements can serve as a simple interface for photo-documentation or power complex, conditional workflows with automated imaging and analysis routines. The NIS-Elements platform features various packages and software modules to meet the needs of even the most challenging applications.

HDR (High Dynamic Range) image acquisition

HDR creates an image with appropriate Ar Option Br D brightness in both the dark and bright

regions in a sample by combining multiple images acquired with different exposure settings. It is also possible to create HDR image using multiple captured images.

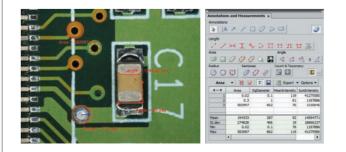




Manual measurement and image annotation

Manual Measurement allows easy measurement Ar Br D

of length and area by drawing lines or an object directly on the image. The results can be attached to the image, and also exported as text or to an Excel spreadsheet.

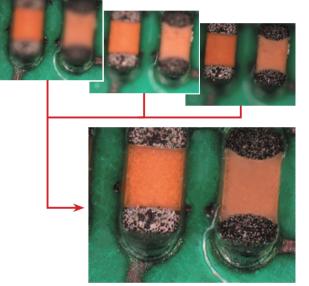


Digital Sight Series

Integration with Nikon's Software Imaging Platform

EDF (Extended Depth of Focus)

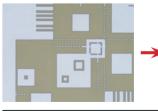
Creates a single, all-in-focus image from **Option Ar Br D** images of differing focus. Such images can now be created by simply turning the focus knob.



Selects the in-focus area and produces one all-in-focus image

Auto measurement (Object Counting)

Performs binarization on images using previously set thresholds to measure the number, area, brightness, etc. of identified objects.







Objective Lenses

CFI60-2 / CFI60

Nikon's CFI60-2/CFI60 optical systems are highly evaluated for their unique concept of high NA combined with a long working distance. These lenses have been developed further and evolved achieving the apex in long working distance specifications, correct chromatic aberration, and an optimized lens weight.

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NA: Numerical Aperture BF: Brightfield DF: Darkfield POL: Polarizing S-POL: Simple Polarizing DIC: Differential Interference Contrast UV-FL: UV Fluorescence FL: EPI Fluorescence

	Model	Magnification	NA	WD (mm)	BF	DF	POL	S-POL	DIC	UV-FL	FL
	T Plan EPI	1×	0.03	3.8	~	—	—	—	_	—	—
	Plan (Achromat)	2.5×	0.075	6.5	~	_	_	-	_	—	—
	TU Plan Fluor EPI	5×	0.15	23.5	~	-	-	~	νA	~	\checkmark
	Universal Plan Fluor (Semi-apochromat)	10×	0.3	17.5	~	—	—	\checkmark	νA	~	\checkmark
		20×	0.45	4.5	~	_	—	\checkmark	νA	\checkmark	\checkmark
		50×	0.8	1.0	~	- 1	-	~	VА	~	\checkmark
		100×	0.9	1.0	~		—	\checkmark	νA	~	\checkmark
	TU Plan Apo EPI	50×	0.8	2.0	~	-	-	~	νA	-	\checkmark
	Universal Plan Apo (Apochromat)	100×	0.9	2.0	~	—	-	\checkmark	νA	—	\checkmark
		150×	0.9	1.5	~		—	~	νA	—	\checkmark
	TU Plan Fluor EPI P	5×	0.15	23.5	~	_	~	~	νA	~	\checkmark
	Polarizing Universal Plan Fluor (Semi-apochromat)	10×	0.3	17.5	~	—	~	~	νA	~	\checkmark
		20×	0.45	4.5	~	—	~	~	νA	~	\checkmark
		50×	0.8	1.0	~	_	~	~	νA	~	\checkmark
		100×	0.9	1.0	✓	-	~	\checkmark	νA	~	\checkmark
CFI60-2	TU Plan EPI ELWD	20×	0.4	19.0	~	_	-	~	vВ	-	\checkmark
	Long Working Distance Universal Plan (Semi-apochromat)	50×	0.6	11.0	✓	—	—	\checkmark	VВ	—	\checkmark
		100×	0.8	4.5	~	-	-	\checkmark	VВ	-	\checkmark
	T Plan EPI SLWD	10×	0.2	37.0	~	—	—	—	-	—	\checkmark
	Super Long Working Distance Plan (Semi-apochromat)	20×	0.3	30.0	~		—	—		—	\checkmark
	(Semi-apochiomat)	50×	0.4	22.0	✓	—	—	-	-	—	\checkmark
		100×	0.6	10.0	~	-	-	-	—	-	\checkmark
	TU Plan Fluor BD	5×	0.15	18.0	↓ ✓			\checkmark	νA	~	\checkmark
	Universal Plan Fluor (Semi-apochromat)	10×	0.3	15.0			—	\checkmark	νA		\checkmark
		20×	0.45	4.5	│			\checkmark	νA	~	\checkmark
		50×	0.8	1.0		~	_	\checkmark	νA	\checkmark	\checkmark
		100×	0.9	1.0	~	~	-	\checkmark	VА	~	\checkmark
	TU Plan Apo BD	50×	0.8	2.0				~	νA		\checkmark
	Universal Plan Apo (Apochromat)	100×	0.9	2.0	✓		_	\checkmark	νA	_	\checkmark
		150×	0.9	1.5		~	-	\checkmark	νA	_	\checkmark
	TU Plan BD ELWD	20×	0.4	19.0				~	∨В	—	\checkmark
	Long Working Distance Universal plan (Semi-apochromat)	50×	0.6	11.0	<u> </u>			~	∨B		\checkmark
		100×	0.8	4.5	~	~	-	\checkmark	VВ	-	\checkmark
	L Plan EPI (Achromat)	40×	0.65	1.0	~	_	-	-	—	-	\checkmark
	L Plan EPI CR	20×	0.45	10.9–10.0	~	_	_	-	—	-	\checkmark
	LCD Substrate Inspection Plan (Achromat)	50×	0.7	3.9–3.0	~	—	—	-	—	-	\checkmark
	*Offers valid while supplies last	100×	0.85	1.2–0.85		-	-	-	—	_	\checkmark
CFI 60		100×	0.85	1.3–0.95	~	-	-	-	_	-	\checkmark
CT 160	LE Plan EPI (Achromat)	5×	0.1	31	~	_	_	_	_	_	\checkmark
		10×	0.25	13		-	-	_	—	-	\checkmark
		20×	0.4	3.6	~	—	—	-	—	-	\checkmark
		50×	0.75	0.5	~	—	—	-	—	_	\checkmark
		100×	0.9	0.31	│	-	-	-	-	-	\checkmark

✓ : Available / — : Not available *A: Set prism position at A / B: Set prism position at B

For Incorporation into Microscopes

Modular Focusing Units

IM-4, LV-IM/LV-IMA, LV-FM/LV-FMA

Suitable for incorporating into systems, these focusing units enable the mounting of a universal illuminator and a motorized nosepiece.

	IM-4	LV-IM/LV-IMA	L
Туре	Manual	Manual / Motorized	M
Vertical stroke	30 mm	30/20 mm	

Compact Reflected Microscopes

CM Series

Ultra-compact reflected microscopes designed for integration into production lines to observe on monitors.



	CM-10A/CM-10L	CM-20A/CM-20L				
Camera mount						
Tube lens magnification	1×	0.5×				
Tube lens focal distance	200 mm	100 mm				
Magnification on CCD surface	Same as objective magnification	Same as objective magnification ×0.5				
Compatible objectives		A series: CF IC El L series: CFI60-2 / CFI				
Illumination optical system		Koehler illuminati				
Attached surfaces	3					
Dimensions (W×D×H)	40×40×224.5 mm	40×40×125.5 mm				
Weight (approx)	440 g	290 g				

Wafer Loaders

Nikon's proprietary technology ensures reliable loading of ultra-thin 100 µm wafers. The NWL 200 series achieve highly reliable loading, suitable for inspection of next-generation semiconductors.

	Diameter	ø200 mm / ø150 m
Wafer	Minimum thickness (standard)	300 um
	Minimum thickness (option)	100 um
Surface	, back side macro inspection	\checkmark

*Optional special wafer loader is also available. Please ask Nikon for detail.

Video Measuring Systems iNEXIV Series / NEXIV Series

Wide variety of stage strokes and magnifications are available for various customer requirements.



igh-Magnification Head				\checkmark	\checkmark	\checkmark	\checkmark
-axis Stroke	200 mm	200 mm	200 mm	200 mm	150 mm		
ax. guaranteed loading capacity	15 kg	20 kg	30 kg	20 kg 40 kg 50 kg			30 kg
laximum permissible error Eux, Mpe Euy, Mpe)	2+8 <i>L</i> /1000 µm	2+6 <i>L</i> /1	000 µm		0.6+2 <i>L</i> /1000 µm		
laximum permissible error Euz, MPE)	3+ <i>L</i> /50 μm	3+ <i>L</i> /1	00 µm		0.9+ <i>L</i> /150 µm		

L = Length in mm

Ma (Et

Ma (Et

Type A



comfortable operation. Laser AF and Touch Probe can be attached as optional accessories.

*Touch Probe is an option only for VMA series.

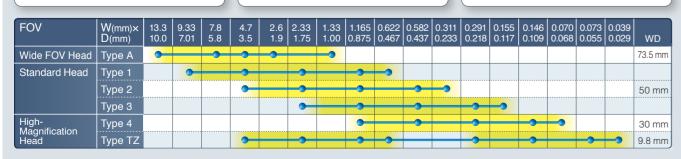
Zoom Heads



(Through the Lens) Laser AF is a standard tool that can scan surfaces at 1000 points/second.



measurements of small targets up to several micrometers.



Equipped with brightfield and confocal optics, Confocal NEXIV series are capable of high-speed, high-resolution inspection of fine 3D shapes.

	Main Body (Type /Stage Strok	(e)
	VMF-K3040	VMF-K6555
XY Stroke	300×400 mm	650×550 mm
Standard head (Type-S)	1.5×/3×/7.5×	1.5×/3×/7.5×
High-Magnification head (Type-H)	15×/30×	15×/30×
45x High-magnification head	45×	45×
Z-axis Stroke	150 mm	150 mm
Accuracy guaranteed loading capacity	20 kg	30 kg
Maximum permissible error (EUX, MPE EUY, MPE)	1.2+4 <i>L</i> /1000 μm	1.2+4 <i>L</i> /1000 μm
Maximum permissible error (Euz, MPE)	1+ <i>L</i> /1000 μm	1+ <i>L</i> /1000 μm
	Applications) Micro wiring patterns (top and bottor	m), bonding wires, probe cards, WLP, PLP, etc.

						Z	oom	Hea	ds								
FOV*	W(mm)× D(mm)	7.81 5.85	3.91 2.93	1.95 1.47	1.56 1.17	1.27 0.95	0.98 0.73	0.78 0.59	0.63 0.47	0.52 0.39	0.39 0.29	0.26 0.19	0.20 0.15	0.10 0.078	0.099 0.074	0.049 0.037	WD
Standard head	1.5×	•															24 mm
(Type-S)	3×		•														24 mm
	7.5×				•												5 mm
High-magnification	15×					-											20 mm
head (Type-H)	30×								-		- •						5 mm
45x High-magnific	ation head								•			•					5 mm
Brightfield	onfocal/Brig	ghtfield	● Co	nfocal	*The	FOV of 1	the brigh	nt field c	ptics ar	e indicat	ed.						

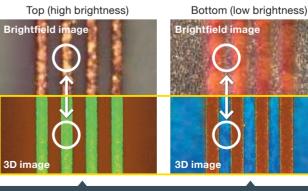
The NEXIV VMF-K series can perform full-field height measurement using confocal optics as well as 2D measurement with brightfield images. Special samples that are difficult to detect with brightfield can be clearly calculated with confocal measurement.

High contrast sample (copper wire on print board etc.)

Confocal observation accurately captures the shape, even for samples that are difficult to measure accurately in brightfield, due to effects such as halation.



Actual shape (SEM image)



Both top and bottom can be measured

Confocal NEXIV Series



Brightfield image

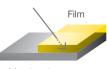


Image with height information



Highly transparent and thin samples (metal surface films, semiconductor resists, etc.)

For transparent samples with unstable light reflection, confocal observation can accurately detect two points: the transparent surface and the metal surface.



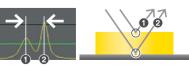
Metal surface

Brightfield



Unstable reflection makes it difficult to detect the exact location

Confoca



Both the top and bottom heights can be detected accurately.

Measuring Microscopes

	gh-precision and y, a wide range of are available.	Basic Model MM-400N	Large-Stage Model MM-800N
	50×50 mm / 5 kg	✓	✓
	100×100 mm / 15 kg	\checkmark	\checkmark
Stage Size/	150×100 mm / 15 kg	\checkmark	\checkmark
Loading Capacity	200×150 mm / 20 kg	—	\checkmark
	250×150 mm / 20 kg	—	\checkmark
	300×200 mm / 20 kg	—	\checkmark
Max. Sample H	leight	150 mm	200 mm
Optical Head	Monocular	\checkmark	_
	Binocular	\checkmark	✓
X-Y-Z	2-axis	\checkmark	\checkmark
X-1-Z	3-axis	\checkmark	\checkmark
CCD		\checkmark	\checkmark
Obj. Magnificat	ion	1×/3×/5×/10	×/20×/50×/100×

✓ : Available / — : Not available



High-Precision Stages

The coarse/fine changeover lever and the RESET and SEND buttons are located near the X- and Y-axis knobs.







X-axis Knob

Y-axis Knob

Focusing Aid (FA)

Offers a line-up compatible with

dimensional measurement and

various observation methods.

Universal Type

- The Split-Prism FA delivers sharp patterns to allow accurate focusing during Z-axis
- measurements.

FA patterns are clearly visible because they are split vertically





Objective

Profile Projectors

Nikon's profile projectors apply the principles of optics to the inspection of manufactured parts by projecting magnified silhouettes on a screen.



		50×50 mm / 5 kg	\checkmark
		100×100 mm / 15 kg	\checkmark
	Stage Size/ Loading Capacity	150×100 mm / 15 kg	\checkmark
		200×150 mm / 20 kg	\checkmark
		250×150 mm / 20 kg	\checkmark
	Max. Sample Height		100 mm* ²
	Screen		305 mm
	Image		Erect
	Projection	Magnification	5×/10×/20×/25×/50×/100×/2
	Lens	FOV (with 10× lens)*1	30.5 mm
	Digital Protractor		\checkmark
	Digital Count	er	\checkmark

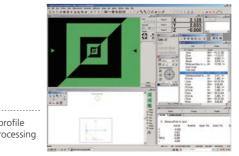
*1: Actual FOV = Effective diameter of screen / Lens magnification

*2: Maximum sample height is 70 mm when 200×150 mm stage is installed.

Data Processing Systems for Measuring Microscopes and Profile Projectors

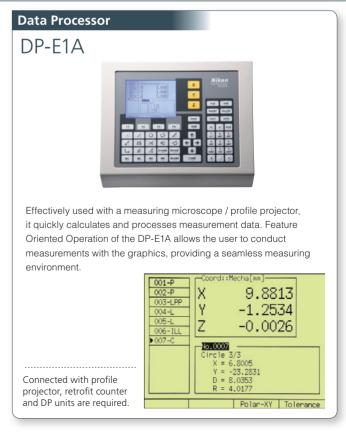


Provides the user with various advanced measurements and processing functions. Automated edge detection with sub-pixel processing enables more precise and repeatable measurements.



Connected with profile projector, data processing functions only

	Large-Screen Model V-20B
	\checkmark
	150 mm
	500 mm
	Inverted
200×	5×/10×/20×/50×/100×
	50 mm
	\checkmark
	✓
)	\checkmark : Available / — : Not available



Autocollimators

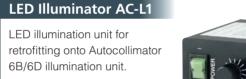
Autocollimator is an easy-to-use but precise metrology instrument for angularity, parallelism, perpendicularity, straightness of precision components machine guide-way and many other applications.

	Brightfield Type 6B-LED	Darkfield Type 6D-LED	
	Utilizes hallmark Nikon optics	Optimal for measuring small, flat mirrors.	
Observation method		6B-LED: Brightfield, 6D-LED: Darkf	ïeld
Readout system	Adjust	tment in viewfield and reading on m	icrometer
Measuring range	30 min	utes of arc (both vertical and horizo	ontal axes)
Minimum range		0.5 seconds of arc	

C-mount TV adapter for Autocollimators

C-mount TV camera can be used when adapter is attached to eyepiece tube.







Power source



Main unit	MF-1001	MF-501	MH-15M
Measuring range	0–100 mm	0–50 mm	0–15 mm
Accuracy (20°C)	3 μm	1 µm	0.7 µm
Measuring force Operating temperature	Downward 1.13 to 1.62N (variable to about 0.29N) Lateral 0.64 to 1.23N	Downward 1.23 to 1.81N (variable to about 0.44N) Lateral 0.64 to 1.23N	Upward 0.25N Downward 0.64N Lateral 0.44N (lifting release included)
		0 to +40°C	

Optical Flat / Optical Parallel / Standard 300 mm Scale

	optical	
Diameter	Glass (ø60 mm)	Glass (ø130 mm)
	15 mm	27 mm
Thickness	10 11111	<i></i> ,

Standard 300mm Scale

Gauges stage travel accuracy up to 300 mm. Both 10 mminterval sensor patterns and calibrations are provided. Made of the glass with low coefficient of thermal expansion, for minimizing thermal influence. *Within 1 µm against compensation values.

Optical Pa	rallel
finished flat a It is used to c a sample by c interference fi	heck the flatness and parallel levels of observing ringes by placing rallel in contact
Diameter	30 mm
	12 mm / 12.12 mm / 12.25 mm / 12.37 mm
Thickness	
	within 0.1 µm

*Optical flats and parallels with greater precision are available by custom orders.

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WARNING TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING THE EQUIPMENT.



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